

APRIL/MAY 2023

CMB31 — IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Give a contribution of Metchnikoff.
2. Give a finding of Edward Jenner.
3. Expand MALT.
4. Define Dendritic cell.
5. What is Haptens?
6. What is T – dependent antigens?
7. Give a contribution of Paul Ehrlich.
8. What is components of complement system.
9. Define Allergic reactions.
10. Define Cross matching.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Explain about scope of Immunology.

Or

- (b) Compare and contrast between Innate and Acquired Immunity.

12. (a) Discuss about the following

- (i) Macrophage
- (ii) Basophil
- (iii) Mast cell

Or

- (b) Distinguish between GALT and CALT.

13. (a) Define Antigens. Explain about the characteristics of antigens.

Or

- (b) Differentiate between the various types of antigens.

14. (a) Explain about the structure, properties and functions of complement system.

Or

- (b) Discuss about the pathways of complement activation.

15. (a) Elaborate about RH typing.

Or

- (b) Explain about Perinatal screening blood.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Distinguish between Active, Passive and Humoral and cell Mediated Immunity.

17. Explain about the structure, functions and properties of stem cell.

18. Define Antibodies. Explain about the structure, properties functions and of Immunoglobulins.

19. What is Major Histocompatibility complex? Explain about the various types of MHC.

20. What is Hypersensitivity? Explain about the methods to detect hypersensitivity reactions.